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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/723,328	11/26/2003	Victor J. Griswold	72255/33234	9474
23380 7590 07/10/2007 TUCKER ELLIS & WEST LLP				INER
1150 HUNTIN	GTON BUILDING		PARK, JUNG H	
925 EUCLID A CLEVELAND	OH 44115-1414		ART UNIT	PAPER NUMBER
	•		2616	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)			
	10/723,328	GRISWOLD ET A	AL.		
Office Action Summary	Examiner	Art Unit			
	Jung Park	2616			
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet with the	correspondence ad	ddress		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING IT Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO .136(a). In no event, however, may a reply be of d will apply and will expire SIX (6) MONTHS fro tte, cause the application to become ABANDON	DN. imely filed m the mailing date of this of IED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on					
	is action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) ⊠ Claim(s) <u>1-36</u> is/are pending in the application 4a) Of the above claim(s) is/are withdrest 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1-4,8-16,20-28 and 32-36</u> is/are reject to claim(s) <u>5-7,17-19 and 29-31</u> is/are objected 8) □ Claim(s) are subject to restriction and	awn from consideration. ected. l to.				
Application Papers					
9) The specification is objected to by the Examir 10) The drawing(s) filed on is/are: a) acceptant may not request that any objection to the Replacement drawing sheet(s) including the correction. The oath or declaration is objected to by the Replacement drawing sheet(s) including the correction.	ecepted or b) objected to by the e drawing(s) be held in abeyance. Section is required if the drawing(s) is constant.	ee 37 CFR 1.85(a). objected to. See 37 C			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents. 2. Certified copies of the priority documents. 3. Copies of the certified copies of the priority documents. * See the attached detailed Office action for a list	nts have been received. nts have been received in Applica iority documents have been recei au (PCT Rule 17.2(a)).	ation No ved in this Nationa	I Stage		
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summa Paper No(s)/Mail 5) Notice of Informa 6) Other:	Date			

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.
- 2. Claims 1, 3, 10-12, 13, 15, and 22-24 are rejected under 35 U.S.C. 102(e) as being anticipated by Hundscheidt et al. (US 2006/0034278, "Hundscheidt").

Regarding claims 1 and 13, Hundscheidt discloses a method [and means] for delivery of a plurality of multicast data streams over a network, the steps comprising:

- observing (observing for determining whether the mobile stations is allowed to register for multicast group, see ¶.101), at an access point (GGSN, see fig.7, ¶.101, and ¶.64), a registration message (IGMP message, see fig.7, ¶.101, and ¶.64) that originated from at least one associated station (MS, see fig.7, ¶.101, and ¶.64);
- determining (determining whether the mobile stations is allowed to register for multicast group, see ¶.101), from the registration message (note: IGMP), a multicast data stream to which this associated station subscribes (subscriber's register for specific multicast group, see fig.7, ¶.101, and ¶.64);
- tracking the multicast data stream (keeps track of multicast groups, see ¶.64, and ¶.101) for which all associated stations subscribing to the steam support low packet-delivery latency (active groups which are ready to receive packets); and
- transmitting the multicast data stream immediately to all associated low-latency stations (delivery multicast data to active mobile stations, see ¶.69 and ¶.64).

Regarding claims 3 and 15, Hundscheidt discloses, "wherein the registration is accomplished using Internet Group Multicast Protocol (see ¶.64)."

Regarding claims 10 and 22, Hundscheidt discloses, "wherein the immediately transmitting step is applied at the Internet Protocol level (IP multicast, see ¶.5)."

Regarding claims 11 and 23, Hundscheidt discloses, "wherein the associated station is a portable personal computer (mobile units, see fig.3)."

Regarding claims 12 and 24, Hundscheidt discloses, "wherein the associated station is a personal data assistant (mobile units, see fig.3).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 25, 27, 34-36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hundscheidt.

Regarding claim 25, it is a claim corresponding to claim 1, except the limitation of computer readable medium. However, it would have been obvious to one of ordinary skill in the art at the time of applicant's invention was made to use software-based machines. The benefit using computer-readable medium is that program can be

changed, upgraded and added new features easily. Therefore, this claim is rejected for the similar reasons set forth in the rejection of the claims.

Regarding claims 27 and 34-36, they are claims corresponding to claims 3, & 10-12, respectively and are therefore rejected for the similar reasons set forth in the rejection of the claims.

5. Claims 2, 14, and 26 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hundscheidt in view of Engwer et al. (US 7082114, "Engwer").

Regarding claims 2, 14, and 26, Hundscheidt discloses the method of performing multicast within a communication network, but does not explicitly disclose, "wherein the access point is an 802.11 access point." However, Engwer discloses an Access Point in full compliance with IEEE 802.11 (see fig.10, col.3, ln.30-32)." Therefore, it would have been obvious to one of ordinary skill in the art at the time of applicant's invention to apply the multicast method using IGMP message disclosed by Hundscheidt into the communication system between wireless unit (WU) and access point (AP) of Engwer in order to adapt widely used IEEE 802.11 protocol for wireless LAN communication.

6. Claims 4, 16, and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hundscheidt in view of Engwer and further in view of Romans (US 2002/0016151, "Romans").

Regarding claims 4, 16, and 28, Hundscheidt and Engwer lacks what Romans discloses, "wherein each low-latency associated station is in 802.11 active operation (active state, see ¶.16)." Therefore, it would have been obvious to one of ordinary skill in the art at the time of applicant's invention to apply the active operation method of

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Romans into the multicast communication of Hundscheidt and Engwer in order to receive the beacon signal for further processing data packets.

7. Claims 8, 9, 20, 21, 32, and 33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hundscheidt in view of Brown (US 6754211, "Brown").

Regarding claims 8, 20, and 32, Hundscheidt lacks what Brown discloses, "wherein the multicast data stream is transmitted to a plurality of stations operating on the same virtual local area network (IP multicast data transfer to Virtual LAN, fig.1; col.1, ln.15-17; col.1, ln.66-67)." Therefore, it would have been obvious to one of ordinary skill in the art at the time of applicant's invention to apply the method of forwarding IP multicast data packet to multicast group using an identification for a Virtual LAN taught by Brown into the multicast transfer method of Hundscheidt in order to send only to all members of same group/same VLAN.

Regarding claims 9, 21, and 33, Hundscheidt lacks what Brown discloses, "wherein the multicast data stream is transmitted to a plurality of stations operating on a plurality of virtual local area networks (IP multicast data transfer to Virtual LAN, fig.1; col.1, ln.15-17; col.1, ln.66-67)." Therefore, it would have been obvious to one of ordinary skill in the art at the time of applicant's invention to apply the method of forwarding IP multicast data packet to multicast group using identifications for Virtual LANs taught by Brown into the multicast transfer method of Hundscheidt in order to forward to all members of a plurality of groups/VLANs.

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Allowable Subject Matter

8. Claims 5-7, 17-19, and 29-31 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jung Park whose telephone number is 571-272-8565. The examiner can normally be reached on Mon-Fri during 6:15-3:45.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chau Nguyen can be reached on 571-272-3126. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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